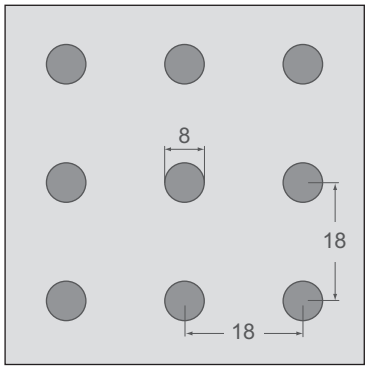
Acoustic Design Boards

Product Data Sheet 122

Sound Absorption

Acoustic Design Board 8/18R (round)



- Sound Absorption Value defined in accordance with DIN EN ISO 354
- Sound Absorption evaluated in accordance with DIN EN ISO 11654

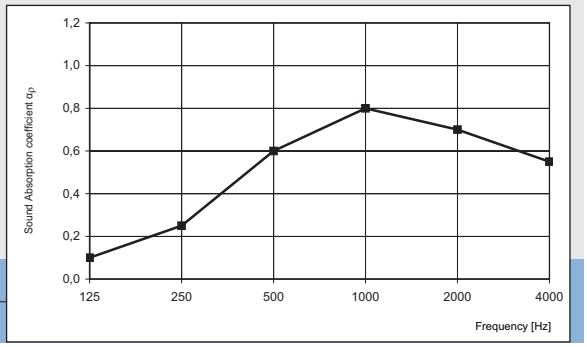
Thickness of the Board:	d = 12,5 mm
Density:	8,50 kg/m²
Perforated Area:	15,5 %
Building Material Classification according DIN 4102:	A2, “non combustible”
Fire performance according DIN EN 13501:	A2-s1, d0

Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption **α_w = 0,55 (M)**
Sound Absorbing Classification **D** (absorbing)

Ceiling Void: 65 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_p	0,10	0,25	0,60	0,80	0,70	0,55

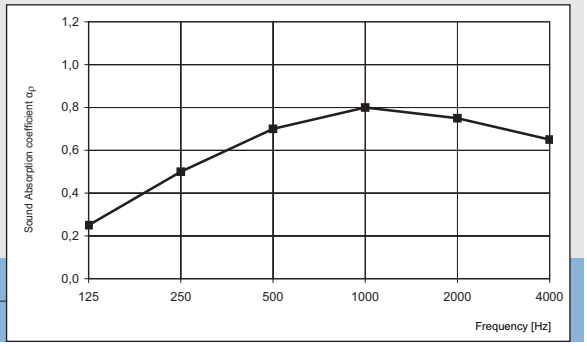


Back of tile laminated with
Acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound Absorption **α_w = 0,75**
Sound Absorbing Classification **C** (high absorbing)

Ceiling Void: 65 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_p	0,25	0,50	0,70	0,80	0,75	0,65



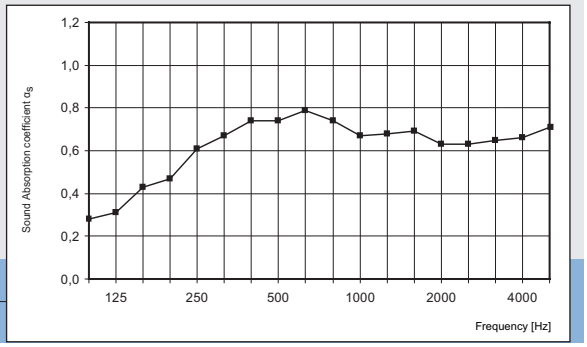
Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption **α_w = 0,70**
Sound Absorbing Classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,67
Classification acc. ASTM E 1264: NRC = 0,65

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,31	0,61	0,74	0,67	0,63	0,66



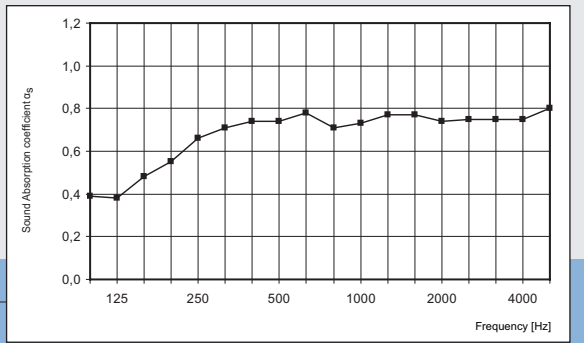
Back of tile laminated with
Acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound Absorption **α_w = 0,75**
Sound Absorbing Classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,72
Classification acc. ASTM E 1264: NRC = 0,70

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,38	0,66	0,74	0,73	0,74	0,75



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